Name - SOUNAK DUTTA Roll no - 2105582

Assignment-1

1.

kiit@BT-2105582:~\$ pwd/home/kiit

2.

```
kiit@BT-2105582:~$ ls
Desktop Downloads Pictures Templates os2.txt oslab_copy.txt
Documents Music Public Videos oslab.txt <mark>thinclient_drives</mark>
```

3.

kiit@BT-2105582:**~\$ who**

4.

```
kiit@BT-2105582:~$ cd Desktop
kiit@BT-2105582:~/Desktop$
```

5.

```
kiit@BT-2105582:~/Desktop$ mkdir Oslab
```

6.

```
kiit@BT-2105582:~/Desktop$ date
Thu Jan 12 13:23:51 IST 2023
```

7.

```
kiit@BT-2105582:~/Desktop$ touch os1.txt
```

```
kiit@BT-2105582:~/Desktop$ echo I am Sounak Dutta. >>os1.txt
kiit@BT-2105582:~/Desktop$ echo I live in Joda. >>os1.txt
```

```
9.
```

kiit@BT-2105582:~/Desktop\$ cat os1.txt I am Sounak Dutta. I live in Joda.

10.

kiit@BT-2105582:~/Desktop\$ cp os1.txt os1c.txt kiit@BT-2105582:~/Desktop\$ cat os1c.txt I am Sounak Dutta. I live in Joda.

11.

kiit@BT-2105582:~/Desktop\$ wc os1c.txt 3 12 57 os1c.txt

12.

kiit@BT-2105582:~/Desktop\$ wc -l os1.txt 2 os1.txt

13.

kiit@BT-2105582:~/Desktop\$ wc -c os1c.txt 57 os1c.txt

14.

kiit@BT-2105582:~/Desktop\$ wc -w os1c.txt
12 os1c.txt

15.

kiit@BT-2105582:~/Desktop\$ head -1 os1.txt I am Sounak Dutta.

16.

kiit@BT-2105582:~/Desktop\$ tail -1 os1c.txt I love playing games.

17.

kiit@BT-2105582:~/Desktop\$ time

real 0m0.000s
user 0m0.000s
sys 0m0.000s

```
18.
```

```
kiit@BT-2105582:~/Desktop$ times
0m0.064s 0m0.038s
0m0.029s 0m0.002s
```

```
kiit@BT-2105582:~/Desktop$ mv os1.txt Documents
```

20.

```
kiit@BT-2105582:~/Desktop$ rename 's/os1/os1c/' .txt

Command 'rename' not found, but can be installed with:

sudo apt install rename
```

21.

```
kiit@BT-2105582:~/Desktop$ tac os1c.txt
I love playing games.
I live in Joda.
I am Sounak Dutta.
```

22.

```
kiit@BT-2105582:~/Desktop$ su kiit
Password:
su: Authentication failure
```

23.

```
kiit@BT-2105582:~/Desktop$ cat os1c.txt | tac | cat | cat | tac
I am Sounak Dutta.
I live in Joda.
I love playing games.
```

24.

```
kiit@BT-2105582:~/Desktop$ cut -dI -f2 os1c.txt
am Sounak Dutta.
live in Joda.
love playing games.
```

```
kiit@BT-2105582:~/Desktop$ cat os1c.txt | grep in
I live in Joda.
I love playing games.
```

```
kiit@BT-2105582:~/Desktop$ echo 1styear | sed 's/1st/2nd/'
2ndyear
```

28.

```
kiit@BT-2105582:~/Desktop$ cat os1c.txt | tee new.txt | cat
I am Sounak Dutta.
I live in Joda.
I love playing games.
```

29.

```
kiit@BT-2105582:~/Desktop$ cat os1c.txt | tr 'lua' 'LUA'
I Am SoUnAk DUttA.
I Live in JodA.
I Love pLAying gAmes.
```

30.

```
kiit@BT-2105582:~/Desktop$ echo Earth is a is planet. >>new.txt
kiit@BT-2105582:~/Desktop$ cat new.txt
I am Sounak Dutta.
I live in Joda.
I love playing games.
Earth is a is planet.
kiit@BT-2105582:~/Desktop$ sort new.txt | uniq
Earth is a is planet.
I am Sounak Dutta.
I live in Joda.
I love playing games.
```

```
kiit@BT-2105582:~/Desktop$ od -t x1 new.txt

00000000 49 20 61 6d 20 53 6f 75 6e 61 6b 20 44 75 74 74

0000020 61 2e 0a 49 20 6c 69 76 65 20 69 6e 20 4a 6f 64

0000040 61 2e 0a 49 20 6c 6f 76 65 20 70 6c 61 79 69 6e

0000060 67 20 67 61 6d 65 73 2e 0a 45 61 72 74 68 20 69

0000100 73 20 61 20 69 73 20 70 6c 61 6e 65 74 2e 0a

0000117
```

```
kiit@BT-2105582:~/Desktop$ od -c new.txt
9999999 I
                                    a k
            a m
                       S
                                                   t
                                                        t
0000020 a . \n I
                       1
                           i
                              v e
                                        i
                                                 J
                                                        d
                                                    0
0000040 a
                                                   i
                       1
                                           1
                          o v
                                        p
                                              а
                                                 У
9999969
                                    Е
                                       а
       g
              g
0000100 s
                    i
                                1
                                              t
                       s
              а
                              р
0000117
```

33.

```
kiit@BT-2105582:~/Desktop$ sort new.txt
Earth is a is planet.
I am Sounak Dutta.
I live in Joda.
I love playing games.
```

34.

```
kiit@BT-2105582:~/Desktop$ gzip os1c.txt
kiit@BT-2105582:~/Desktop$ ls
Documents Oslab new.txt os1c.txt.gz os2.txt oslab.txt
```

35.

```
kiit@BT-2105582:~/Desktop$ gunzip os1c.txt
kiit@BT-2105582:~/Desktop$ ls
Documents Oslab new.txt os1c.txt os2.txt oslab.txt
```

36.

```
kiit@BT-2105582:~/Desktop$ find . -name "*.txt"
./oslab.txt
./new.txt
./os1c.txt
./os2.txt
```

```
kiit@BT-2105582:~/Desktop$ locate new.txt

Command 'locate' not found, but can be installed with:

sudo apt install mlocate
```

```
kiit@BT-2105582:~/Desktop$ cal
   January 2023
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 <mark>12</mark> 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

```
ciit@BT-2105582:~/Desktop$ gzip new.txt
kiit@BT-2105582:~/Desktop$ ls
Documents Oslab new.txt.gz os1c.txt os2.txt oslab.txt
kiit@BT-2105582:~/Desktop$ zcat new.txt
I am Sounak Dutta.
I live in Joda.
I love playing games.
Earth is a is planet.
```

40.

```
kiit@BT-2105582:~/Desktop$ df
kiit@BT-2105582:~/Desktop$ df
Filesystem 1K-blocks Used Available Use% Mounted on
/dev/sdb 263174212 2556200 247179856 2% /
tmpfs 6280632 0 6280632 0% /mnt/wsl
tools 498799612 304686164 194113448 62% /init
none 6278548 0 6278548 0% /dev
none 6280632 4 6280628 1% /run
none 6280632 0 6280632 0% /run/lock
none 6280632 0 6280632 0% /run/shm
none 6280632 0 6280632 0% /run/user
tmpfs 6280632 0 6280632 0% /sys/fs/cgroup
drivers 498799612 304686164 194113448 62% /usr/lib/wsl/dr
tmpfs 6280632 0 6280632 0% /sys/13/cg/dap
drivers 498799612 304686164 194113448 62% /usr/lib/wsl/drivers
lib 498799612 304686164 194113448 62% /usr/lib/wsl/lib
                                          498799612 304686164 194113448 62% /mnt/c
```

```
### dev/sdb on / type ext4 (rw.relatime,discard,errors=remount-ro,data=ordered)
tupefs on/mnt/wsl type tupefs (rw.relatime,discard,errors=remount-ro,data=ordered)
tupefs on/mnt/wsl type tupefs (rw.relatime)
tools on /init type 9p (ro,relatime,dirsync,aname=tools;fmask=022,loose,access=client,trans=fd,rfd=6,wfd=6)
tone on /dev type devtupefs (rw.nosuid,relatime,size=6278548k,rr_inodes=1569637,mode=755)
sysfs on /sys type sysfs (rw.nosuid,nodev,noexec,noatime)
spoc on /proc type proc (rw.nosuid,nodev,noexec,noatime)
terpts on /dev/pts type depts (rw.nosuid,noexec,noatime)
tone on /run/lock type tupefs (rw.nosuid,noexec,noatime)
tone on /run/lose type tupefs (rw.nosuid,noexec,noatime)
tone on /run/lose type tupefs (rw.nosuid,noexec,noatime)
tone on /run/lose type tupefs (rw.nosuid,noexec,noatime)
tone on /run/shm type tupefs (rw.nosuid,noexec,noatime)
tone on /run/shm type tupefs (rw.nosuid,noexec,noatime,mode=755)
tinfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw.relatime)
tupefs on /sys/fs/group type tupefs (rw.nosuid,noexec,noatime,mode=755)
tinfmt_misc on /proc/sys/fs/group type tupefs (rw.nosuid,nodev,noexec,relatime,sione=755)
tinfmt_misc on /sys/fs/group/unified type group (rw.nosuid,nodev,noexec,relatime,sione=755)
tinfmt_misc on /sys/fs/group/cpust type group (rw.nosuid,nodev,noexec,relatime,spc,uset)
tipe on /sys/fs/group/cpust type group (rw.nosuid,nodev,noexec,relatime,spusct)
tipe on /sys/fs/group/plutype group (rw.nosuid,nodev,noexec,relatime,spusct)
type on /sys/fs/group/bikio type group (rw.nosuid,nodev,noexec,relatime,memory)
typoup on /sys/fs/group/plutype group (rw.nosuid,nodev,noexec,relatime,memory)
typoup on /sys/fs/group/feezer type group (rw.nosuid,nodev,noexec,relatime,memory)
typoup on /sys/fs/group/feezer type group (rw.nosuid,nodev,noexec,relatime,memory)
typoup on /sys/fs/group/feezer type group (rw.nosuid,
```

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
      valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
      valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
   link/ether 92:86:e2:1a:76:01 brd ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
   link/ether 52:a7:51:c3:6b:28 brd ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
   link/ipip 0.0.0.0 brd 0.0.0.0
5: sit@@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
   link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
   link/ether 00:15:5d:f7:92:fd brd ff:ff:ff:ff:ff
   inet 172.27.92.238/20 brd 172.27.95.255 scope global eth0
      valid_lft forever preferred_lft forever
   inet6 fe80::215:5dff:fef7:92fd/64 scope link
      valid_lft forever preferred_lft forever
kiit@BT-2105582:~/Desktop$ mail -s "Johan Liebert" sounak.avash@gamil.com
Command 'mail' not found, but can be installed with:
sudo apt install mailutils
```

```
kiit@BT-2105582:~/Desktop$ ping amazon.com
PING amazon.com (54.239.28.85) 56(84) bytes of data.
64 bytes from 54.239.28.85 (54.239.28.85): icmp_seq=1 ttl=220 time=249 ms
64 bytes from 54.239.28.85 (54.239.28.85): icmp_seq=2 ttl=220 time=314 ms
64 bytes from 54.239.28.85 (54.239.28.85): icmp_seq=3 ttl=220 time=503 ms
64 bytes from 54.239.28.85 (54.239.28.85): icmp_seq=4 ttl=220 time=390 ms
64 bytes from 54.239.28.85 (54.239.28.85): icmp_seq=5 ttl=220 time=396 ms
^C
--- amazon.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4531ms
rtt min/avg/max/mdev = 248.740/370.469/503.434/85.625 ms
```

44.

```
kiit@BT-2105582:~/Desktop$ host amazon.com
amazon.com has address 54.239.28.85
amazon.com has address 52.94.236.248
amazon.com has address 205.251.242.103
amazon.com mail is handled by 5 amazon-smtp.amazon.com.
```

```
kiit@BT-2105582:~/Desktop$ rm os1c.txt
kiit@BT-2105582:~/Desktop$ cat os1c.txt
cat: os1c.txt: No such file or directory
```

```
kiit@BT-2105582:~/Desktop$ more new.txt
I am Sounak Dutta.
I live in Joda.
I love playing games.
Earth is a is planet.
kiit@BT-2105582:~/Desktop$ less new.txt

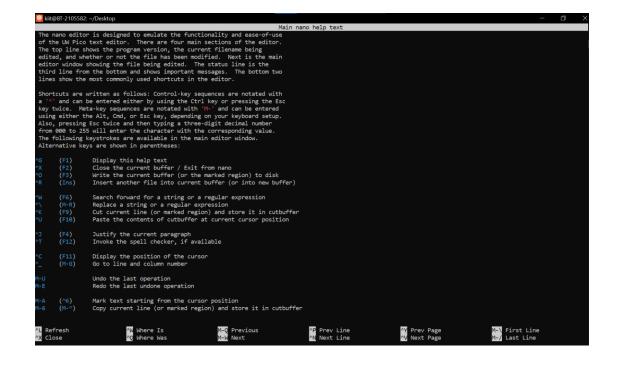
    kiit@BT-2105582:~/Desktop
I am Sounak Dutta.
I live in Joda.
I love playing games.
Earth is a is planet.
new.txt (END)
```

47.



48.

kiit@BT-2105582:~/Desktop\$ nano



```
☑ kiit@BT-2105582: ~/Desktop
kiit@BT-2105582:~/Desktop$
```

kiit@BT-2105582:~\$ exit